Yorkshire Philosophical Society.

ANNUAL REPORT

FOR

MDCCCXXXVII.

ANNUAL REPORT

OF THE COUNCIL

OF THE

Yorkshire Philosophical Society

FOR

MDCCCXXXVII.

PRESENTED TO THE ANNUAL MEETING

FEBRUARY 6TH, 1838.

NATURAL HISTORY

YORK:

THOMAS WILSON AND SONS, HIGH-OUSEGATE.

1838.

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FORM OF A

BEQUEST TO THE SOCIETY.

EVERY person desirous of bequeathing to the Society any sum of Money, Specimens, Books, Instruments, or other Property, is requested to make use of the following form :

I give and bequeath to the Trustees, for the time being, of the Society established at York, called "THE YORKSHIRE PHILOSOPHICAL SOCIETY," for the use of the said Society, the sum of to be paid out of such part of my personal estate, as I may legally charge therewith. [Or here enumerate the effects or property intended to be bequeathed.] *And I direct that the receipt of the Treasurer of the said Society, for the time being, shall be an effectual discharge to my Executors for the said legacy.*

TRUSTEES

OF

THE YORKSHIRE MUSEUM,

APPOINTED BY THE ROYAL GRANT.

HIS GRACE THE ARCHBISHOP OF YORK.
EARL OF CARLISLE.
EARL FITZWILLIAM, F.R.S., F.S.A.
EARL DE GREY.
HON. AND VERY REV. THE DEAN OF LICHFIELD.
FRANCIS CHOLMELEY, ESQ. F.S.A.
ROBERT DENISON, ESQ.
REV. W. VERNON HARCOURT, F.R.S.
WILLIAM HATFEILD, ESQ. F.G.S.
WILLIAM LAWSON, ESQ. F.S.A.
EUSTACHIUS STRICKLAND, ESQ.
RICHARD JOHN THOMPSON, ESQ.

PATRONESSES

OF

The Yorkshire Philosophical Society.

HER MAJESTY THE QUEEN.
HER ROYAL HIGHNESS THE DUCHESS OF KENT.

PATRONS.

HIS GRACE THE ARCHBISHOP OF YORK.
EARL OF CARLISLE.
EARL FITZWILLIAM, F.R.S.
EARL OF TYRCONNEL, F.R.S.
VISCOUNT MORPETH.
LORD STOURTON.
LORD WHARNCLIFFE.

OFFICERS OF THE SOCIETY.

PRESIDENT:

THE EARL FITZWILLIAM, F.R.S.

VICE-PESIDENTS:

GEORGE LANE FOX.
HENRY PRESTON.
REV. S. CREYKE.
THOMAS BARSTOW.
C. H. ELSLEY.
WM. GRAY, JUN. F.G.S.
REV. C. WELLBELOVED.
R. J. THOMPSON.

TREASURER:

ROBERT DAVIES.

COUNCIL:

Elected 1836..... JAMES BARBER.
H. S. BELCOMBE, M.D.
WILLIAM BLANSHARD.
REV. THOMAS EGERTON, F.G.S.

Elected 1837..... EDWARD ELGIN.
REV. JOHN KENRICK.
EUSTACHIUS STRICKLAND.
JOHN WOLSTENHOLME.

Elected 1838..... GEORGE GOLDIE, M.D.
WILLIAM HATFEILD, F.G.S.
THOMAS MEYNELL, Jun. F.L.S.
HENRY SMALES.

SECRETARIES:

JOHN PHILLIPS, F.R.S., G.S.
HENRY ROBINSON.

CURATORS:

Rev. John Graham	Geology.
William Hatfeild, F.G.S. ...	Mineralogy.
James Atkinson	Comparative Anatomy.
Thomas Allis ... ... / Rev. J. B. Graham ...	Ornithology.
Rev. I.J.D. Preston, F.C.P.S. / Thomas Meynell, jun. F.L.S.	Entomology.
Rev. W. Hincks, F.L.S. ...	Botany.
Rev. C. Wellbeloved ...	Antiquities and Coins.
Joseph Munby	Library.

KEEPER OF THE MUSEUM:

John Phillips, F.R.S., G.S.

SUB-CURATOR:

Henry Baines.

REPORT

OF

THE COUNCIL.

The Report of the Proceedings of the Yorkshire Philosophical Society, during the past year, will be as brief as the necessity of clearly explaining the present condition and prospects of the Institution will allow. It is gratifying to state as a general result, that in the number of its members, the state of its finances, and the condition of its museum, the Society has never been more fortunately circumstanced. From the measures now in progress there is reason to conclude that this prosperous condition may be prolonged; and it will depend upon the decision of this meeting whether the facilities of access, already enjoyed by the public, shall be further augmented, and new attempts made to enlarge the power and efficiency of the institution.

The Donations to the Museum and Library have been numerous and valuable; and the Council, encouraged by the admission of many new members, has ventured to add a considerable number of specimens by purchase on favourable terms.

The most remarkable additions to the Geological department are from the fossiliferous (often called transition) strata of Christiania, * and those contemporaneous or more recent strata in Ireland and Devonshire which have for some time furnished matter of discussion between eminent British geologists. † Many contributions have also been received from

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* Collected and presented by the Rev. W. Bilton.

† Presented by Mr. Bilton, Mr. Weaver, and Rev. D. Williams.

the strata of the Yorkshire coast, and a few purchases have been authorised, to supply particular desiderata. It is hoped that the Systematic Catalogue of the whole geological collection may be completed in the present year.

The collection of Zoological specimens has been enlarged and improved in almost every department. Hyrax capensis, lycaon tricolor, and many other interesting quadrupeds from the Cape of Good Hope,* phalangista vulpina, the pigmy antelope, ornithorynchus paradoxus, and other donations, augment the collection of mammalia to 120 specimens, and require some further provision of cases for their proper exhibition and arrangement.

Great additions have been made to the Ornithological collection of the Society, both by gift and purchase. The most valuable of the former consist in specimens of the splendid Indian birds, lophophorus impeyanus, and tragopan satyrus, presented by Archdeacon Corbet. Since the last Annual Meeting no less than 257 specimens have been mounted by the Sub-curator, in a very satisfactory style, and the Curators hope soon to commence the formation of a general catalogue of the Foreign Birds for the use of the members.

To furnish a satisfactory basis for a new cabinet of British insects, Professor Phillips has placed his whole collection at the disposal of the Curators of that department; an example followed by Mr. Allis, and Mr. W. Gray, jun. The arrangement of these collected treasures has been commenced by Mr. Meynell and Mr. W. Hewitson, and is now proceeding.

The Curator of the Botanical department has availed himself of the means which have been provided for the preservation of the collections of dried plants; the portion of the herbarium which had been completed is now properly placed; and he is proceeding with the remainder as fast as circumstances will allow.

The Garden has been greatly improved during the past

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* Presented by Mrs. R. Markham.

year; and in addition to the greenhouse, which is already well filled, a valuable present of tropical orchideous plants has led to the construction of a small stove, expressly adapted to the cultivation of that interesting tribe of plants, of which the society possesses about 40 species.

The Antiquarian collections have been increased by some additional Egyptian relics received from Colonel Harcourt, and by several interesting English and Irish coins the gift of S. Kenrick, Esq. To the Directors of the York and North Midland Railway Company, the society is indebted for a curious Roman altar, lately found in the line of the railway, near the Mount. It is sculptured on every side, but the figures are so much effaced by time, that in the absence of every thing like an inscription, it is difficult if not impossible to ascertain what the figures were designed to represent. From Joseph Bonomi, Esq., the Society has received a cast of a large and highly interesting Assyrian monument, sculptured, with several others, three of which are Egyptian, on the rocks in the vicinity of Beyrout; representing an Assyrian king, holding in his left hand a staff, "the antique symbol of regal authority;" and having on his right hand the Assyrian dove, above which are certain astronomical signs and symbols. Nearly the whole of the figure, as well as the arched inclosure in which it stands, is covered with an inscription in the arrow headed character, in many places well preserved. *

The Library has been ornamented by the gift of Piranesi's etchings of the columns of Trajan and Antoninus,† and among the collections of books and transactions of learned societies, it is the pleasing duty of the Council to notice with gratitude the liberal bequest of the late George Hodgson, Esq., of Bridlington. The magnificent work of Audubon is near its termination; and it remains to be considered what portion of

* See Landseer's Sabæan Researches, Sect. IX.

† Presented by Michael Taylor, Esq.

the annual expenditure thus saved may be applied to the purchase of books of reference, for the assistance of the Curators of natural history and antiquities.

The Monthly Meetings have been less completely supplied with scientific essays than heretofore; a circumstance which is the more to be regretted, when the success which has lately attended the Evening Conversations is considered. Out of the large mass of communications which have thus contributed to the instruction of the members, the Council proposes to select for publication those memoirs which, by their bearing on the natural history and antiquarian monuments of Yorkshire, or their importance in general science, appear worthy of being placed in the hands of the members, and offered to the public. The TRANSACTIONS OF THE YORKSHIRE PHILOSOPHICAL SOCIETY, thus limited in plan, can never offend by their extent; but if frequently published in a modest form, and at a low price, may powerfully direct the inquiries of the members to the scientific objects of local interest for which the institution was originally founded, and by some contributions to the general amount of useful knowledge, deserve the approbation of the public.

It is further proposed that a short DESCRIPTION OF THE CONTENTS OF THE MUSEUM shall be speedily printed, for the assistance of the members, and the numerous strangers who now visit the institution.

The FLORA OF YORKSHIRE, by which title it is proposed to designate the work on the botany of the county some time since commenced by the Sub-curator, is in the press, and will be published before the conclusion of the year.

During the past year, death has removed from us several members, and among them one who has left a vacancy in the ranks of the Yorkshire Philosophical Society, and in the hearts of its members, not easily to be filled. Generous in his benefactions, untiring in useful labour, prodigal of time and various knowledge for the public good, the memory of

Mr. Jonathan Gray will long be dear to a larger circle than our own; the public voice may raise a tribute to a worthy citizen, but all that here surrounds us is a lasting monument of our philosophic friend.

Pressed by the weight of professional business, Mr. Wm. Gray, jun. has found it necessary to withdraw that active assistance which for eleven years he has rendered as Secretary to the Institution.

From causes nearly similar, Professor Phillips, at an earlier period of the year, finding it impossible to give his attention to the Society's affairs for the period, or at the times, stipulated in the arrangement commenced in 1825, replaced in the hands of the Society the trust which had been committed to him;—but the Council, unwilling to break a connexion which has now subsisted for twelve years, proposed to him to continue the general direction of the scientific affairs of the Society, without any limitation as to time.

The Council has requested Mr. Robert Davies to accept the office of Treasurer, and Mr. H. Robinson to act as joint Secretary with Professor Phillips; nominations which, from the high character of those gentlemen, the Council entertains no doubt this meeting will confirm.

The expenditure of the year has been great; but much that was required to be done has been accomplished; and there has been no waste. Independently of an augmentation of the salary of the Sub-curator, which has indeed been fully repaid by the additional duties undertaken and executed by him; the finances have had to bear the cost of a portion of the new insect cabinets, of the fitting up of the shelves for the collections of plants, of mounting the skeletons of the whale and the Irish elk, of repairing the Roman and monastic walls, and constructing a small hothouse for plants of considerable value. These things were necessary; but the Council has gone further, and for the first time during many years, has expended in the purchase and preparation of specimens on

less a sum than £84. The justification of this step will be best given by reference to the collection of birds, now containing 1200 prepared specimens,—to the geological museum,—and the list of new members; for it was from *this* source that the Council derived encouragement to do this year what it is to be hoped may often be repeated.

Notwithstanding these large expenses, the balance against the Society on the general account is reduced by nearly £86.; but on the other hand the deficiency on the account of the Manor Shore has been augmented £32. This arises from causes which there is no rashness in saying will not be repeated.

In relinquishing to the members whom you may choose for the following year, the further governance of the Society's affairs, the Council wishes to point out how far the proceedings of the past year or existing circumstances are likely to influence the adoption of particular measures.

There is no reason to expect that larger pecuniary means will be at the disposal of the new Council, than those which have been expended in 1837; and they will probably have to bear some considerable charges: it will be requisite, therefore, to avoid all unnecessary outlay.

An arrangement has been made for the purchase of Mr. Allis's whole collection of skeletons and other preparations of birds, &c., on terms more advantageous than would have been accorded to any other purchaser.

Anatomical preparations of animals have always been found of the highest importance in zoology. Upon this solid foundation Cuvier rested his knowledge and secured his fame. Of such preparations none are more popularly attractive, or philosophically valuable, than the skeletons of vertebral animals. In lectures before the Society, their utility has been abundantly manifest, both in illustrating the habits of living races, and decyphering the monuments of ancient nature. Mr. Allis's extensive and beautiful series of skeletons has been declared by competent judges to be one of the most con-

spicuous ornaments of the museum; and in determining to give effect to the recommendation in the last year's Report, the only hesitation felt by the Council regarded the prudence of pledging the Society's resources to the extent of £350.

In this difficulty the liberal offer of Earl Fitzwilliam to head a subscription in aid of the Society's funds was gratefully accepted, and the Council, not doubting that the members would gladly second the example of their President, authorised a committee to conclude the purchase. The meeting will learn with satisfaction that the sum of £230. has been already subscribed for this object, and there is reason to hope the supply is not yet exhausted.

Among the subjects requiring attention during the ensuing year, the construction of new cases to hold the collection of quadrupeds is prominent. The Council obtained estimates for fitting up the walls of the mineral room, which is the most appropriate situation; but they resolved to refer to the Annual Meeting the question when the work should be undertaken. If furnished with cases on three sides, that room would afford for many years abundant space for the augmentations which may reasonably be expected in the zoological collections. There is no immediate need for further disbursements in new cases, except to complete the insect cabinets; little need be spent in repairs or purchases; £20. a-year may be deducted from the purchase of books; the Manor Shore will eventually become a source of profit; and many new candidates have announced their desire to join the Society. All these circumstances are favourable to the determination of fitting up the mineral room, to the extent proposed, immediately; and though an expense of £200. is not to be rashly incurred, the meeting will recollect that the expenditure cannot be long delayed, if the donations which the Society continually receives are to be exhibited in an order acceptable to the student, satisfactory to the donor, and gratifying to the public.

RECEIPTS.

		£.	s.	d.
Annual Subscriptions from 223 Members at 2*l.* each		446	0	0
Ditto from 6 at 1*l.*		6	0	0
Annual Donations—Mrs. Danby	2 0 0			
Sir C. Ibbetson	5 5 0			
		7	5	0
From Ladies, being Annual Subscribers		31	0	0
For Keys of Garden		12	15	0
For Gas consumed at Evening Meeting		1	10	0
For Tickets of Admission, deducting expense of Sale		43	7	0
Balance due to the Treasurer		97	4	9
	£.	645	1	9

PAYMENTS.

	£. s. d.	£. s. d.
Rent and Taxes:		
Crown	1 0 8	
Corporation	6 12 6	
Water	4 4 0	
Poor, &c.	14 18 9	
Insurance	5 0 0	
		31 15 11
Salaries and Wages:		
Keeper of the Museum	100 0 0	
Sub-curator	70 0 0	
Servant and Cleaning	20 0 0	
Lodge-keeper	10 0 0	
Labourer	36 18 0	
Collector	1 1 0	
		237 19 0
Printing		25 1 0
Stationery		1 9 0
Books and Binding:		
Books	34 11 6	
Binding	7 18 0	
		42 9 6
Gardens and Grounds (including repairs of Multangular Tower) ...		38 7 3
Repairs of Furniture (including Glass for the Entomological Cabinets)		66 16 0
Incidents:		
Coals and Coke	22 11 0	
Gas	7 15 0	
Miscellaneous	16 7 7	
		46 13 7
Purchase and preparation of Specimens		84 4 0
Interest on debt, including the floating debt on the Manor Shore ...		70 6 6
		£. 645 1 9

GENERAL ACCOUNT.

	£.	s.	d.		£.	s.	d.
Received Arrears of former years ...	49	0	0	Balance due to the Treasurer, 1836	1816	13	5
..... Admission of 18 members ...	54	0	0	Ditto on Annual Account of 1837	97	4	9
..... Compositions of 4 members ...	80	0	0				
Balance due to the Treasurer ...	1730	18	2				
£.	1913	18	2	£.	1913	18	2

	£.	s.	d.
Arrears on this Account ...	103	0	0

PRESENT STATE OF THE ACCOUNT RELATIVE TO

THE PURCHASE OF THE MANOR SHORE ESTATE.

	£.	s.	d.		£.	s.	d.
Received a year's rents, due Michaelmas, 1837 ...	144	10	0	Paid a year's interest on 2,500*l.* borrowed on mortgage	100	0	0
Debt in January, 1838 ...	101	7	6	Paid expense of the mortgage	15	0	0
				Paid for repairs of houses, formation of roads, and fencing of allotments ...	61	10	6
				Debt in January, 1837 ...	69	7	0
£.	245	17	6	£.	245	17	6

RESOLUTIONS

ADOPTED BY THE ANNUAL MEETING

In consequence of Notices given according to the Laws of the Society.

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1. To permit the holding of Horticultural Meetings, during the year 1838, in the Gardens of the Society.

2. To continue for the year 1838 the regulation whereby strangers are admitted to the Museum and Gardens of the Society, on presenting a ticket, price 1s.

3. To authorise the Council to give free admission to the Museum and Gardens of the Society to all persons, on such days, and under such regulations, as the Council may appoint.

RESOLUTION

ADOPTED BY THE ANNUAL MEETING,

Grounded on a Recommendation in the Report of the Council.

To authorise the Council to expend a sum not exceeding £200. in fitting up the Mineral Room with cases for the reception of zoological specimens.

SCIENTIFIC COMMUNICATIONS

TO THE

GENERAL MEETINGS.

March 7, 1837.—On the Geological Structure of the country near Ingleton, Kirby Lonsdale, and Lancaster, by Professor Phillips, F.R.S., G.S.

April 4.—Notice of some Fossil Fishes from the marl slate of Ferryhill, Durham, in reference to the discoveries of M. Agassiz, by W. Gray, jun. F.G.S.

Oct. 3.—Reports of the Proceedings of the British Association at Liverpool, by Mr. Allis, Mr. W. Gray, Rev. W. Hincks, Professor Phillips, and Rev. W. Taylor.

Dec. 5.—Notices of New Electrical Experiments, by the Rev. W. Taylor.

Jan. 2, 1838.—On some peculiarities in the Skeleton of the Albatross, by T. Allis.

Catalogue of Molluscous Animals observed near York, by the Rev. W. Hincks, F.L.S.

DONATIONS

TO

THE SOCIETY'S MUSEUM.

GEOLOGY.

Miss Best	Pentacrinus caput medusæ (Leppington).
Rev. W. Bilton, F.G.S. ...	Series of specimens from the culmiferous and paint beds of Bideford (N. Devon); series of rock specimens and organic remains illustrative of the geology of Christiania.
Sir George Cayley, Bart....	Cast of a gigantic ammonite from Cayton Bay (diameter 23½ inches).
Lieut. Carter, R.N. ...	Teredo antenautæ, Aldborough, Suffolk.
H. P. Cholmeley, Esq. ...	Large ammonite from the coralline oolite of Stonegrave.
Mr. I. Deck	Casts of encrinites moniliformis and of hamites articulatus.
L. W. Dillwyn, Esq. F.R.S.	Masses of sinuous concretionary coal from Swansea.
Rev. T. Egerton, F.G.S. ...	Coniferous wood from the lias of Whitby; cololites from Solenhofen and the green sand of Kent; copper ore in red sandstone on the line of an anticlinal axis in Shropshire; ochre from Shotover.
Mr. Ellison	Producta conoides, and other fossils from the mountain limestone of South Wales.

Earl Fitzwilliam	Fossil shells (pinna pectunculus, &c.) from Bognor.
G. L. Fox, Esq., M. P. ...	Lepidodendra and other fossil plants from Kippax and Bardsey.
Mr. Gibbs	Dendritical slate from Ingleton, and other specimens. Mass of flexible limestone from Marsden rocks, near Sunderland.
Mr. John Gowland ...	Fishes from the marl slate of Ferryhill, Durham, including platysomus striatus, palæoniscus magnus, &c.
Wm. Gray, jun., F.G.S. ...	Crustacea, &c. from the strata of the Yorkshire coast; zamia and several shells from the Dogger Beds. Large bones of saurians from Speeton.
Col. H. V. Harcourt ...	Fossils from Northamptonshire.
Professor Phillips ...	Large geode from the magnesian conglomerate near Mendip; several species of ammonites from the oolite of Dundry, &c.
Miss Phillips	Three specimens of ophiura from the marlstone of Robin Hood's Bay.
S. Powell, Esq.	Crystallized carbonate of lime from Farnham.
R. Ripley, Esq.	Nodule of lias with fish-scales; fossil plants from near Whitby; ammonites.
J. Thompson, Esq. ...	Pecten cinctus, from near Nettleton, Lincolnshire.
T. Weaver, Esq., F.G.S....	Series of specimens of rocks and organic remains from the transition and carboniferous tracts of the South of Ireland.
Rev. D. Williams, F.G.S.	Series of fossils from N. Devon.

ZOOLOGY.

T. Allis	Hyæna, phalangista vulpina, racoon, three coatimondis, rattel, jackal, seal, eight monkeys, mandrill, pigmy antelope, panther, ocelot, two civet cats, one-eyed pig, bat, agouti, &c.
	Moor buzzard, golden-eye, teal, female sooter, golden plover, and ring dottrel.
	Selections from his British insects.
Miss Best	Pinna; esculent snail from Nice; several insects from Nice.
John Bleckly	A decoy duck.
Lieut. Carter, R. N. ...	Recent teredines, from the Suffolk coast.
Sir George Cayley, Bart. ...	Rostrum of saw-fish and skin of boa.
Ven. Archdeacon Corbet, D.D.	Trogopan satyrus; lophophorus impeyanus; scoter.
Earl of Derby	A black swan.
G. L. Fox, Esq.	Haw-finch.
Wm. Gray, jun.	Selections from his British insects.
Mr. Hill	Six British birds.
Rev. W. Hincks, F.L.S. ...	Echinus from New Holland.
Mr. Jackson	A stuffed ram.
Wm. Kirby	Austrian pratincole, crane, and crested titmouse.
Mrs. R. Markham ...	Many quadrupeds from the Cape of Good Hope, including lycaon tricolor, hyrax capensis (the hind feet tridactyle), caracal, the gemse bok, the striped antelope, skulls of the hart beest, &c.; also several birds.

T. Meynell, Esq. jun. F.L.S.	Selected British insects.
Mr. Peters	Tympanum of whale's ear.
Professor Phillips, F.R.S.	His whole collection of British Insects, chiefly collected near York, from 1825 to 1835.
R. Ripley, Esq.	Several birds from Lancaster Sound.
— Scott, Esq. *(Norwich)*	Ornithorhynchus paradoxus.
T. C. Wood, Esq.	Several British birds.

BOTANY.

Miss Best	Cotton plant from Nice (Asclepias Syriacus.)
Mr. Cameron, *Birmingham Botanical Garden*	70 Greenhouse and hardy plants.
Mr. Lowe, *Nurseryman, Clapton.*	12 Epiphytic orchideæ.
Francis Maude, Esq. ...	Nepenthes distillatoria.
Dr. Wake	Seeds from the East Indies.

*** Donations of soil, &c. for the Garden, have been received from Mr. J. F. Brown and Mr. Oldfield, and part of the cost of the new Hothouse was defrayed by Mr. Eust. Strickland.

COINS AND ANTIQUITIES.

Joseph Bonomi, Esq. ...	Cast of a Chaldæan figure, sculptured in relief on the rock near the mouth of the river Lycus, (Nahr el Kelb) near Beyrout in Syria.
Col. H. V. Harcourt ...	Antiquities from the Catacombs of Egypt.
Samuel Kenrick, Esq. F.A.S.	Coin of Sithric, king of Dublin; four Irish groats of Ph. and Mary; Irish penny of John; groat of Edw. III., struck at York, and thirty-two other coins.
Mr. G. Milner, jun. ...	Ancient seal of the 'Companie of Merchant Adventurers of Kingston-on-Hull.'
Rev. Wm. Parker, *Riccall*	Various implements found near Thorne, in making a new cut for the river Went.
Professor Phillips	Coin of Tetricus, found on the Manor Shore.
Eust. Strickland, Esq. ...	Three coins found on the Manor Shore.
Rev. C. Wellbeloved ...	A Saxon sceattor and various other coins.
York and North Midland Railway Company	A Roman altar, found near Holdgate Lane.

MISCELLANEOUS.

Mr. Bradwell	Ancient gunlock from Sheriff Hutton Castle.
Mr. Hartop	Specimens of the effects of an experiment in the iron furnaces at Elsecar.
	Fragments of vitrified forts, Scotland.
Mrs. R. Markham ...	Chain armour, and ancient implements.
	Tomahawk and arrow heads from Pensylvania.

DONATIONS TO THE LIBRARY.

Professor Bache	Proceedings of the Franklin Institute, in reference to Explosion of Steam Boilers.
Cambridge Phil. Society ...	Transactions of the Society, Vol. VI. Catalogue of the Museum.
S. Duncan, Esq.	Catalogue of the Ashmolean Museum.
Rev. T. Exley (the Author)	Facts in Chemistry explained mathematically.
Prof. Forbes (the Author)	Researches on Heat.
Geological Society	Proceedings of the Society, 48, 49, 50.
H. Heuland, Esq. ...	Description d'une Collection de Mineraux, &c., &c., par A. Levy, 3 tomes 8vo, et Planches, 4to.
J. Hogg, Esq. (the Author)	His Work on two Roman Inscriptions relative to the Conquest of Britain by Claudius Cæsar.
La Societé d'Histoire Naturelle de Genève	Memoires de la Societé, Tome VII.
Leeds Lit. & Phil. Society	Transactions of the Society, Vol. I. Part 1.
Rev. F. O. Morris... ...	Report of the Doncaster Lyceum.
Professor Phillips (the Author)	Geology, Vol. I., (Lardner's Cyclopædia.) Print of the Irish Elk in the Museum.
H. Robinson, Esq. ...	Ptolemy's Ancient Geography, Amsterdam, 1730.
	History of York, 2 vols. 8vo, 1788.
	Yorkshire Freeholders' Poll Book, 1741, and 1807.
	Marshall's Rural Economy of Yorkshire, containing North and East-Riding Glossary, 2 vols. 8vo.
	Yorkshire Directory, 1828.
	Marshall's Review of the Reports of the Board of Agriculture, 5 vols. 8vo, York, 1808.
	Views of Churches in York, 4to, 1830.
	Evelyn's Architecture.

Royal Society of Edinburgh	Transactions of the Society, Vol. XIV.
Swansea Lit.& Phil. Society	Report for 1836 and 1837.
Mr. Michael Taylor ...	Piranesi's Etchings of the Columns of Trajan and Antoninus.
The Society of Arts ...	Transactions for 1836, Vol. LI., Part 1.
Shropshire Nat. Hist. Soc.	Reports for 1835 and 1836.
Warwickshire Nat. Hist. & Archæological Society	First Report of the Society.
Right Hon. W. Wickham	Gaudin, Flora Helvetica, 7 tomes, 8vo, Zurich, 1828—33.
	Murith, Guide du Botaniste dans le Valais, 4to, Lausanne, 1810.

SUBSCRIBING MEMBERS

ELECTED FROM JANUARY, 1837, TO DECEMBER, 1837.

Munby, Joseph, *York.*
Woodall, George, *York.*
Harper, John, *York.*
Hornor, Edward, *York.*
Rawdon, William Frederick, M.D., *York.*
Shann, George, M.D., *Tadcaster.*
Cayley, Rev. Arthur, *York.*
Cholmeley, Henry Philip, *Brandsby.*
Greame, Yarburgh, *Sewerby, Bridlington.*
Thirlwall, Rev. Connop, F.G.S., &c. *Kirby-Underdale.*
Richardson, Henry, *York.*
Hacket, Francis Beynon, *York.*
Lockwood, William, *York.*
Norrison, John, *York.*
Pearce, Robert Rouiere, *York.*
Milbank, Mark, *Thorpe Perrow, Bedale.*
Staveley, Thomas Kitchingman, *Old Sleningford, Ripon.*

Prickett, Rev. Marmaduke, F.S.A. *Bridlington.*
Dawnay, Hon. William Henry, *Beningbrough, York.*
Hewitson, William Chapman.
Gamlen, Rev. S., *Bossal, York.*
Barlow, Edmund, *York.*

MEMBERS ELECTED JAN. AND FEB. 1838.

Blyth, Edwin Verden, *York.*
Allen, William, *York.*
Wilkinson, Rev. William John, *York.*
Fletcher, Caleb, *York.*
Hey, Rev. William, *York.*
Dundas, Hon. John Charles, M.P., *Aske, Richmond.*
Anderson, Edward Robert, *York.*
Watson, Robert, *York.*
Williams, Caleb, *York.*

(*Thomas Wilson and Sons, High-Ousegate, York.*)

Presented
13 MAR 1888